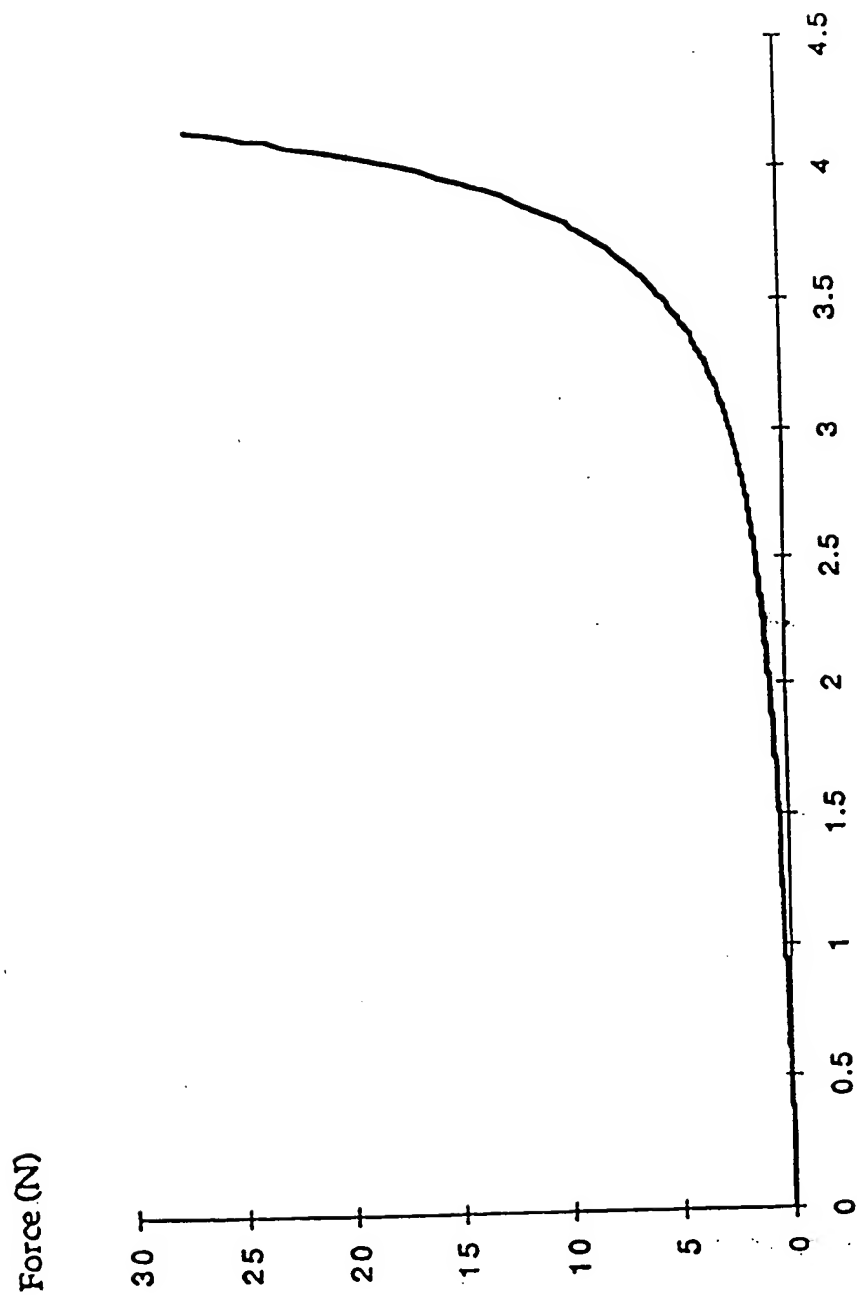


Compression of 5 mm disk (5 mm diameter) at 2 mm/min



Displacement (mm)

Fig. 1

Compression of 5 mm disk (5 mm diameter) at 2 mm/min

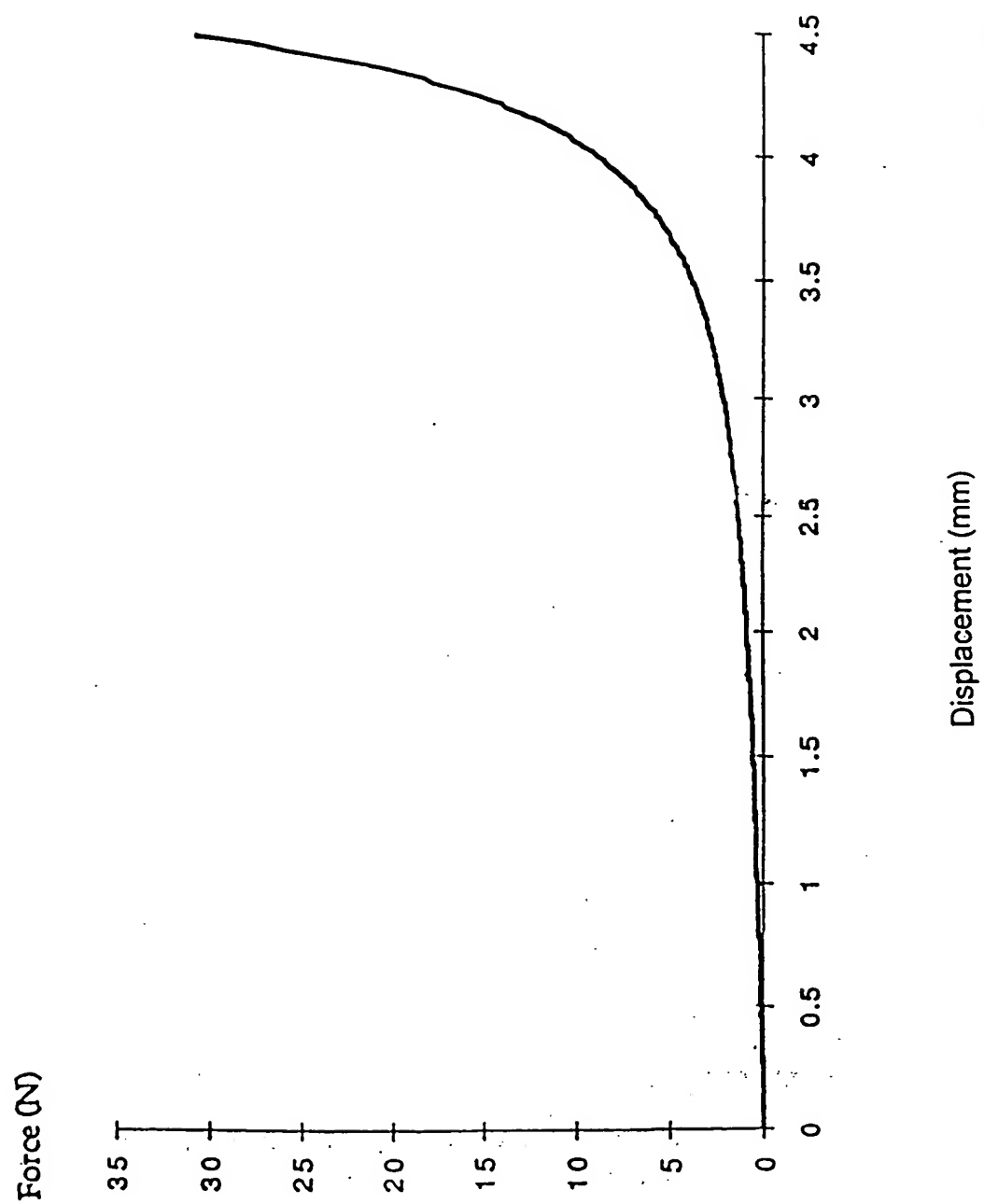


Fig. 2

Diamine

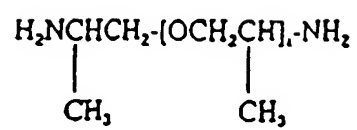


Fig. 3a

Triamine

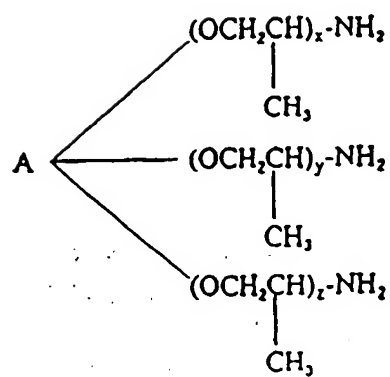


Fig. 3b

SG-PEG: Tetrafunctionally Activated PEG Succinimidyl Glutarate

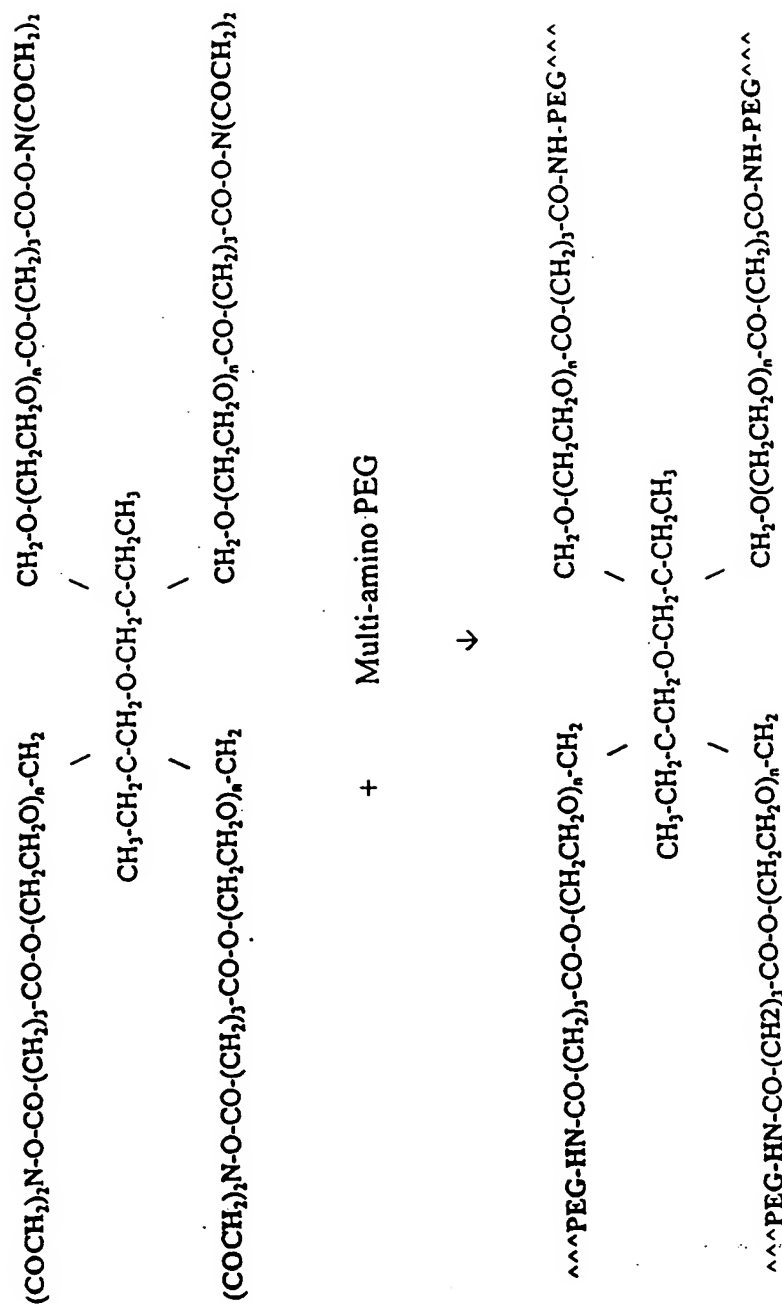


Fig. 4

SE-PEG, m=3: Tetrafunctionally Activated PEG Succinimidyl Butylate (Ether Linkage)

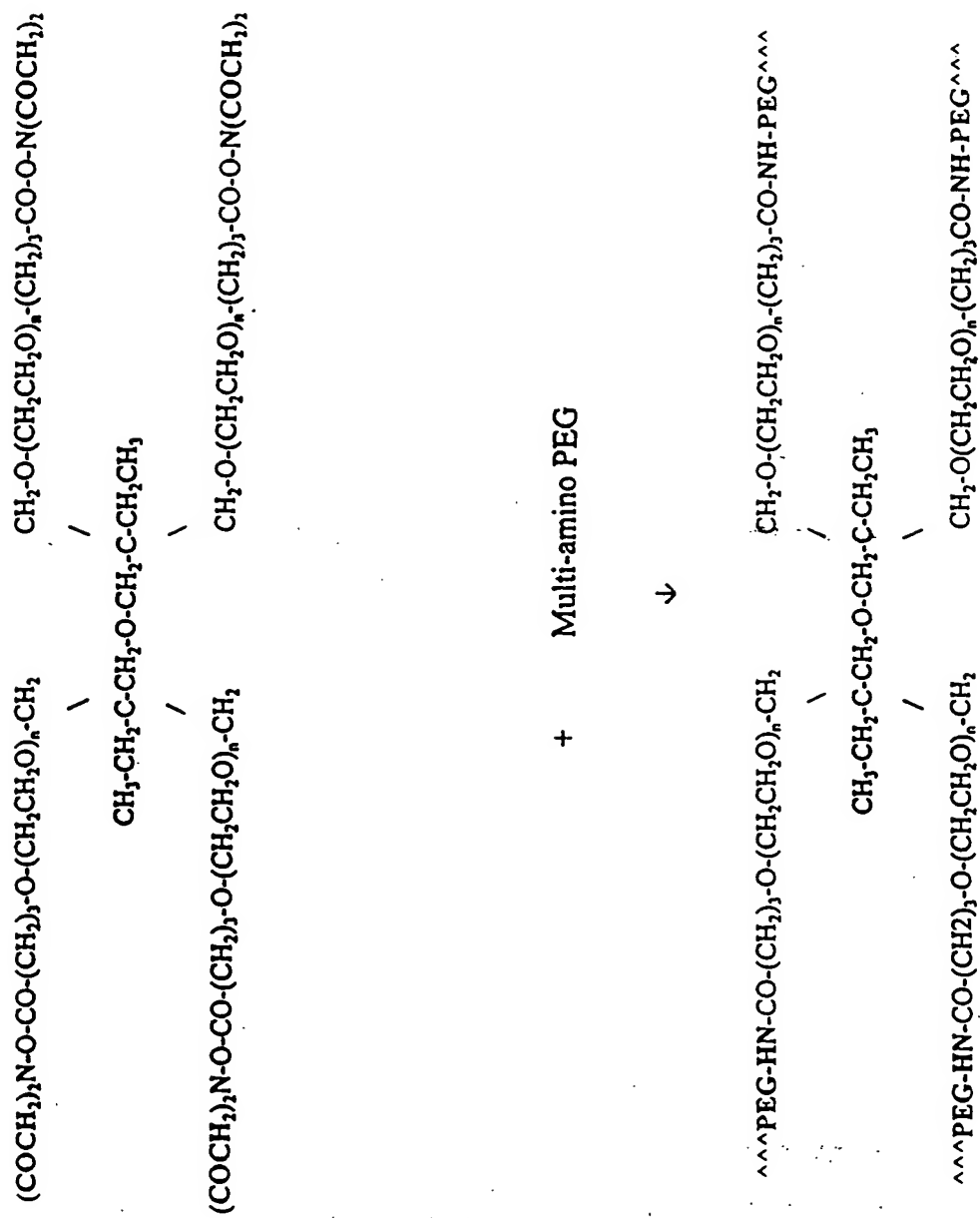


Fig. 5

SE-PEG, m=2 Tetrafunctionally Activated PEG Succinimidyl Butylate (Ether Linkage)

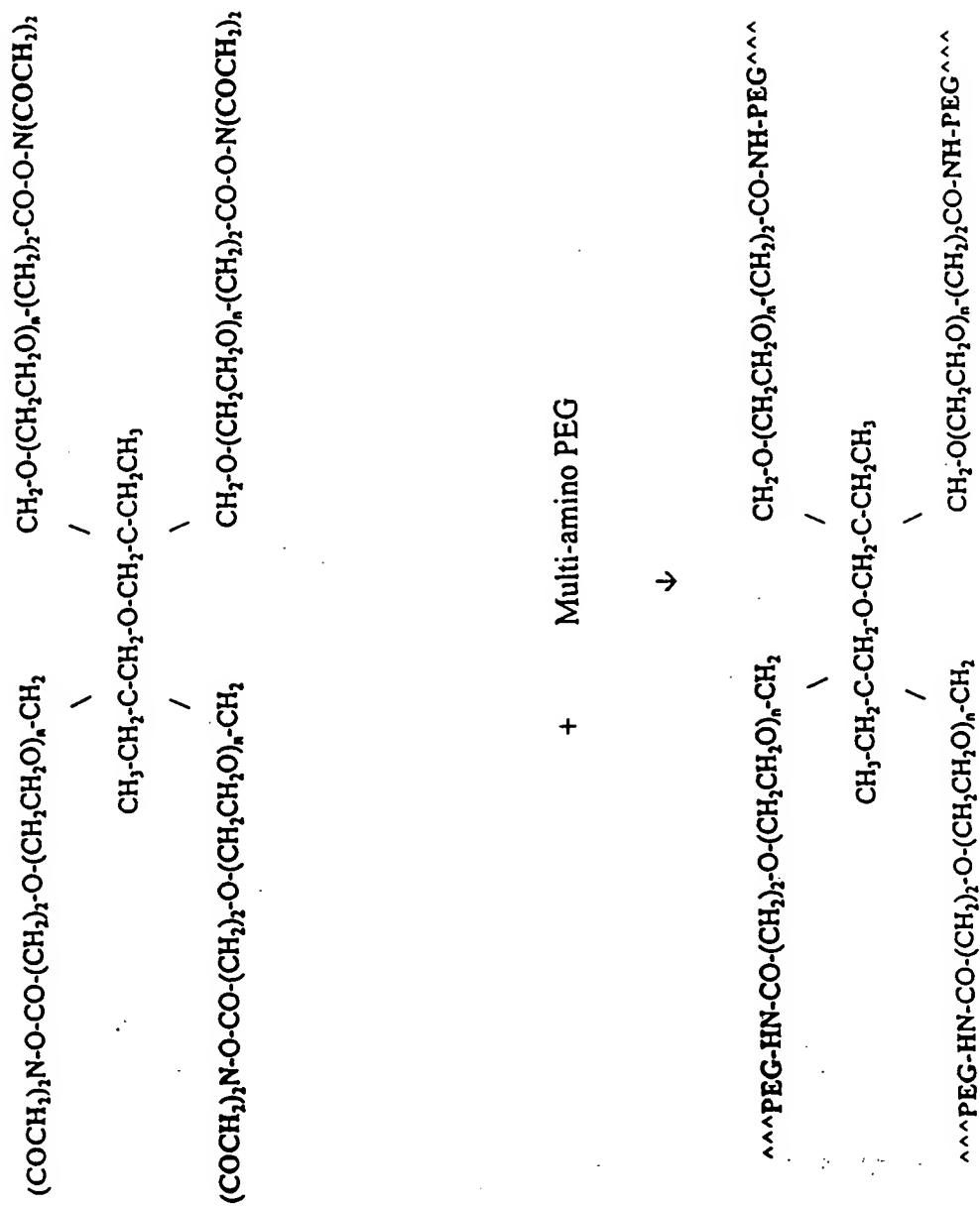


Fig. 6

SE-PEG, m=1 Tetrafunctionally Activated PEG Succinimidyl Acetate (Ether Linkage)

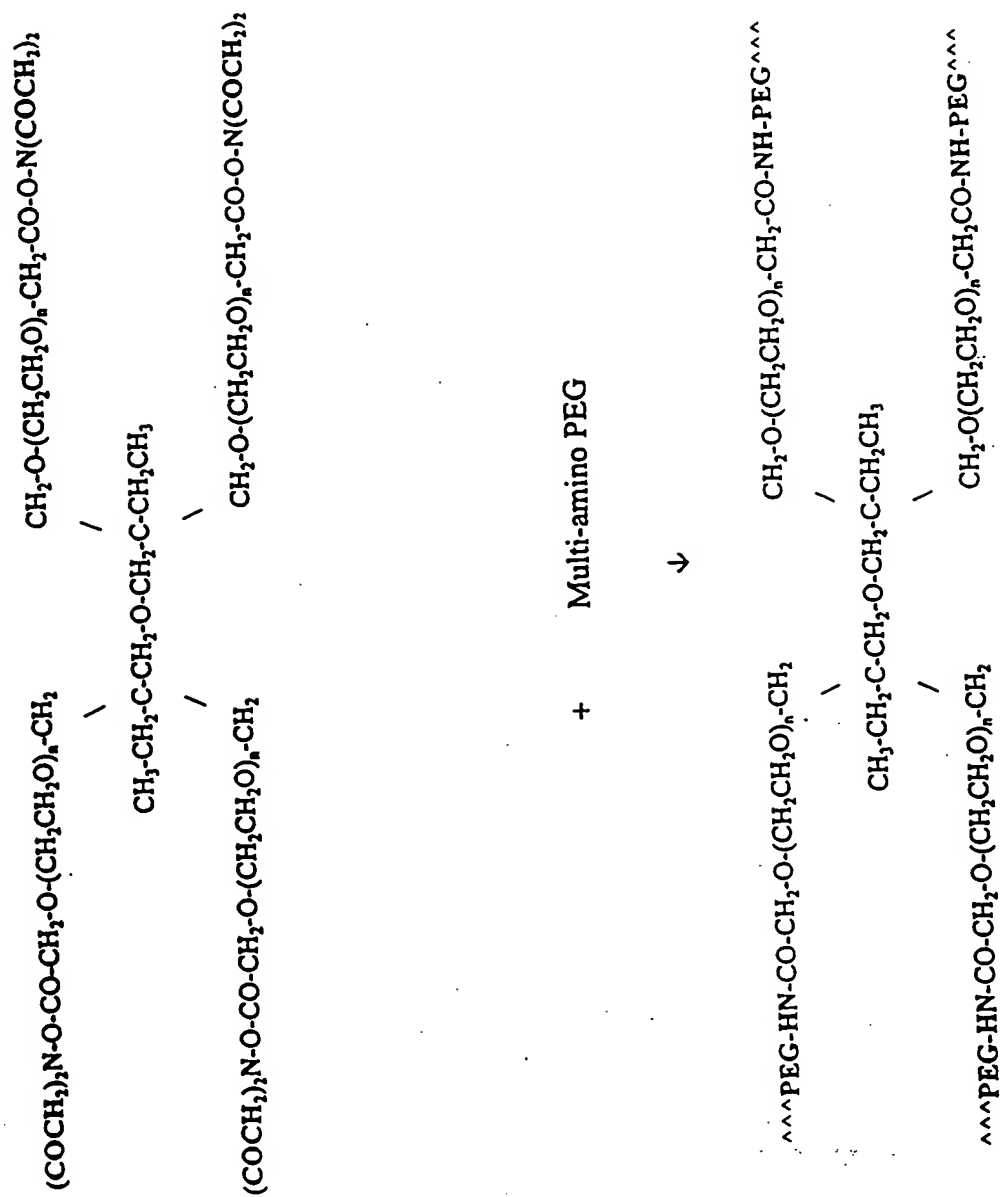


Fig. 7

SSA-PEG, m=2: Tetrafunctionally Activated PEG Succinimide

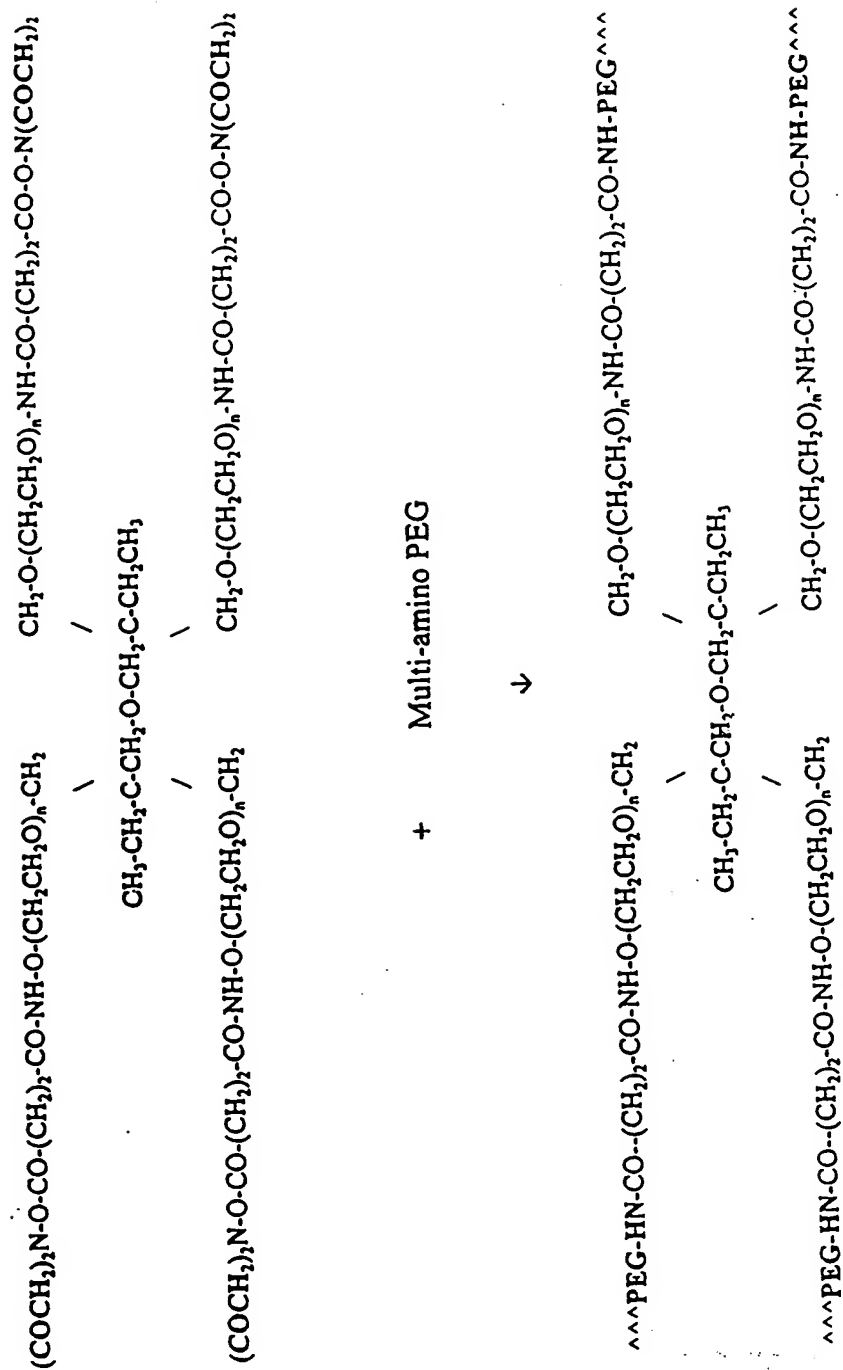
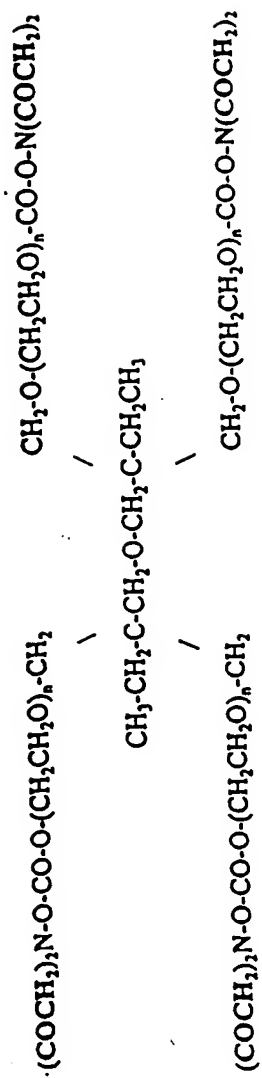


Fig. 8

SC-PEG, m=0: Tetrafunctionally Activated PEG Succinimidyl Carbonate



+ Multi-amino PEG

↓

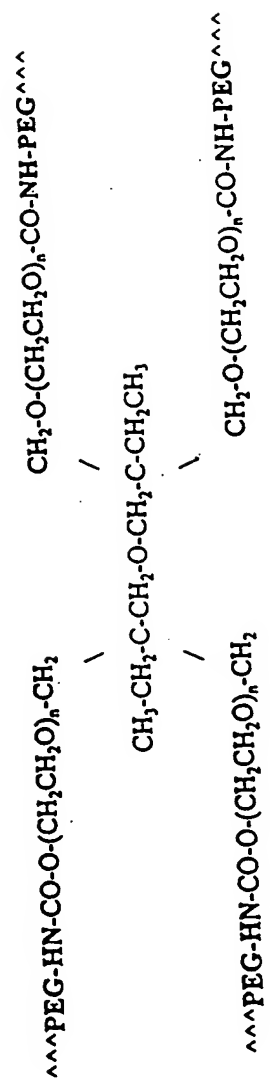
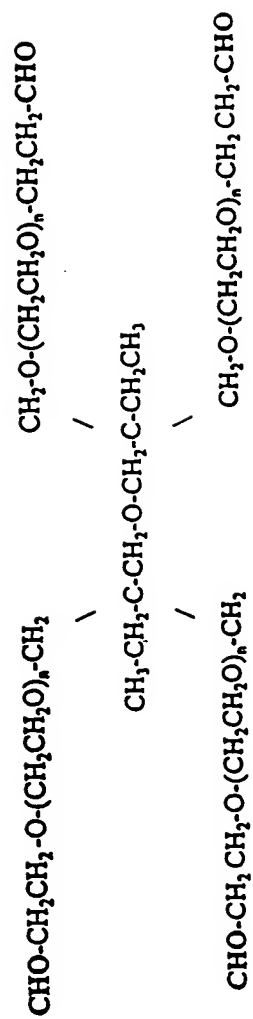


Fig. 9

A-PEG: Tetrafunctionally Activated PEG Propion Aldehyde



+ Multi-amino PEG

↓

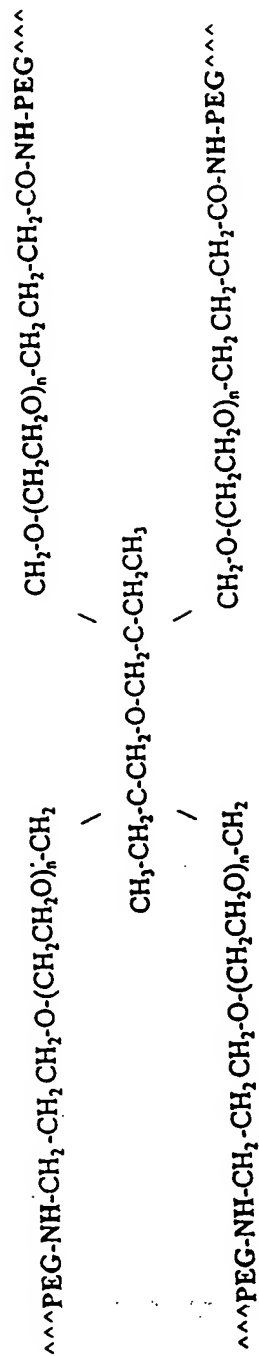


Fig. 10

E-PEG: Tetrafunctionally Activated PEG Glycidyl Ether

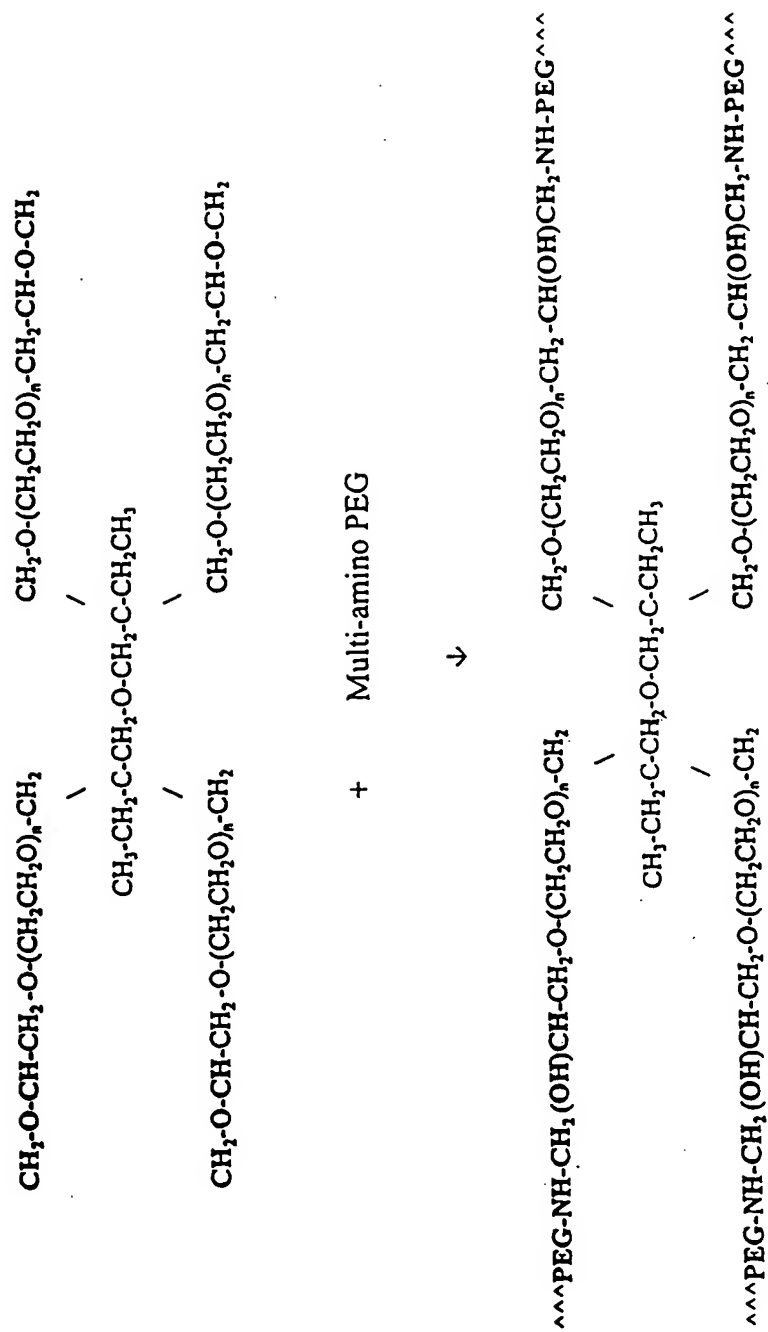
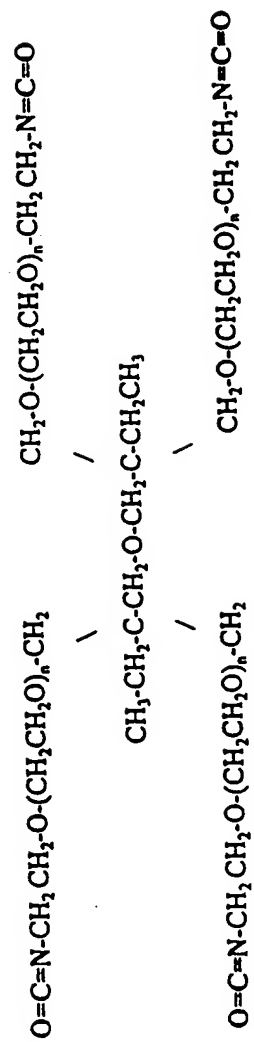


Fig. 11

I-PEG: Tetrafunctionally Activated PEG Isocyanate



+ Multi-amino PEG

↓

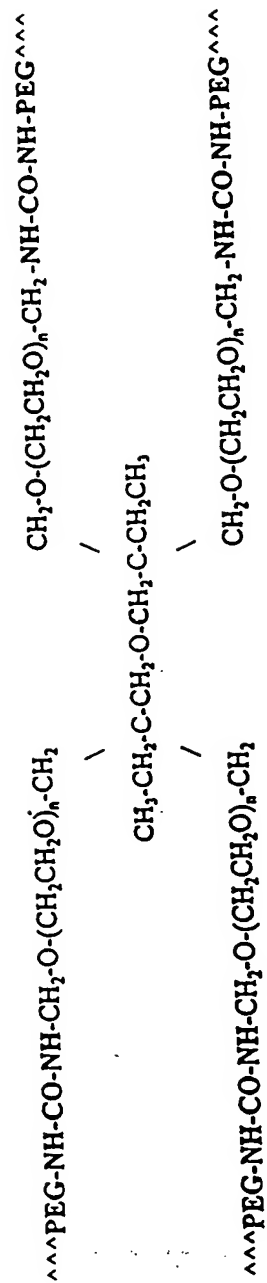
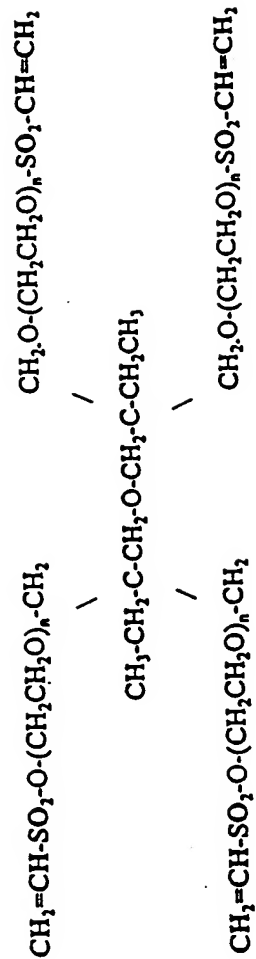


Fig. 12

V-PEG: Tetrafunctionally Activated PEG Vinylsulfone



+ Multi-amino PEG

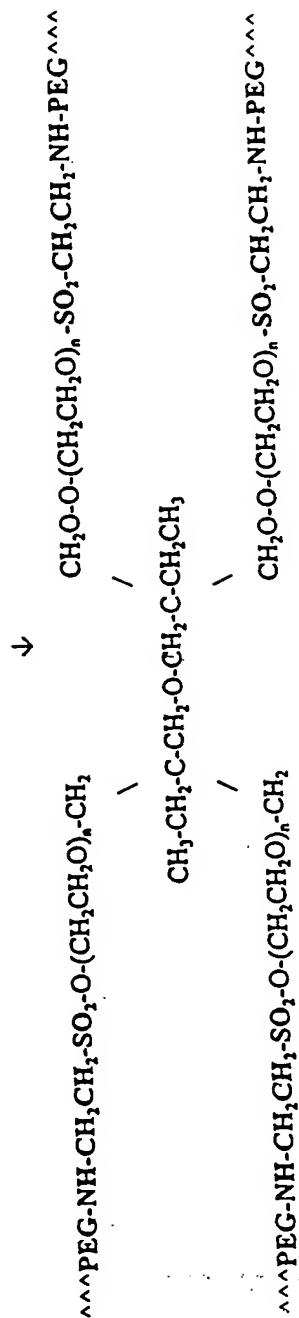


Fig. 13

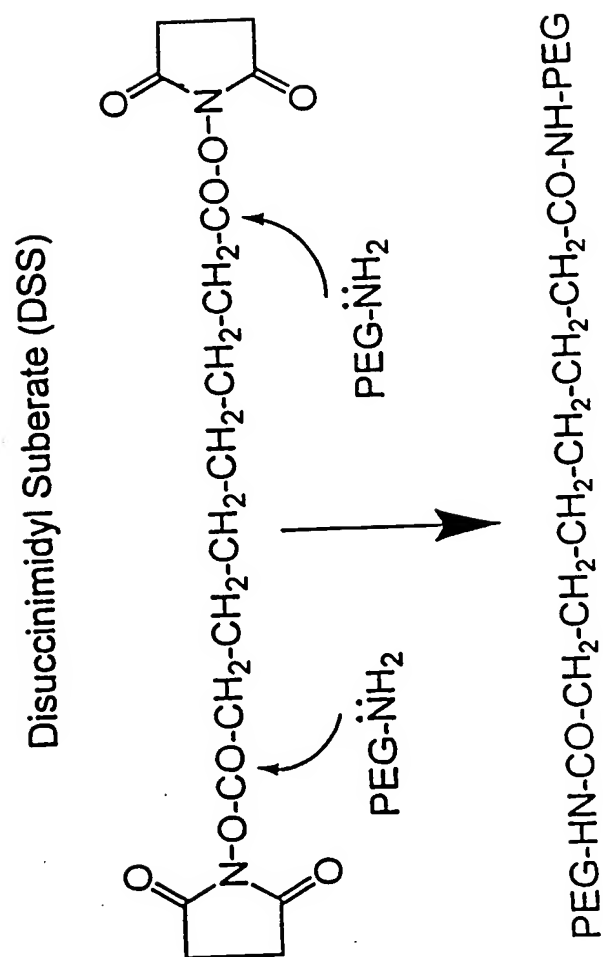


Fig. 14

Dithiobis(succinimidylpropionate) (DSP)

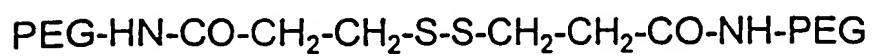
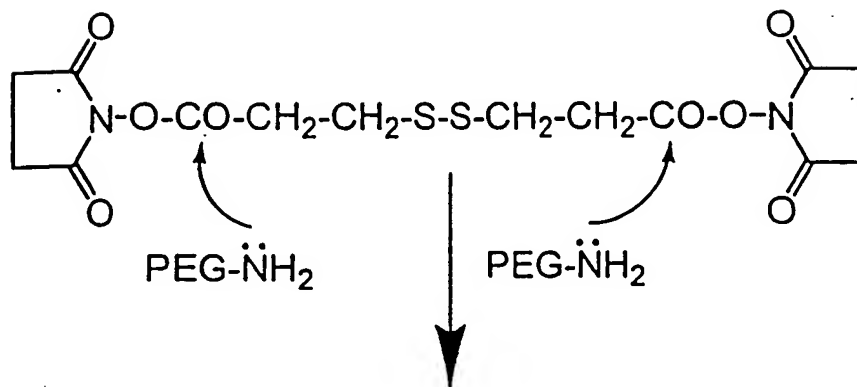


Fig. 15

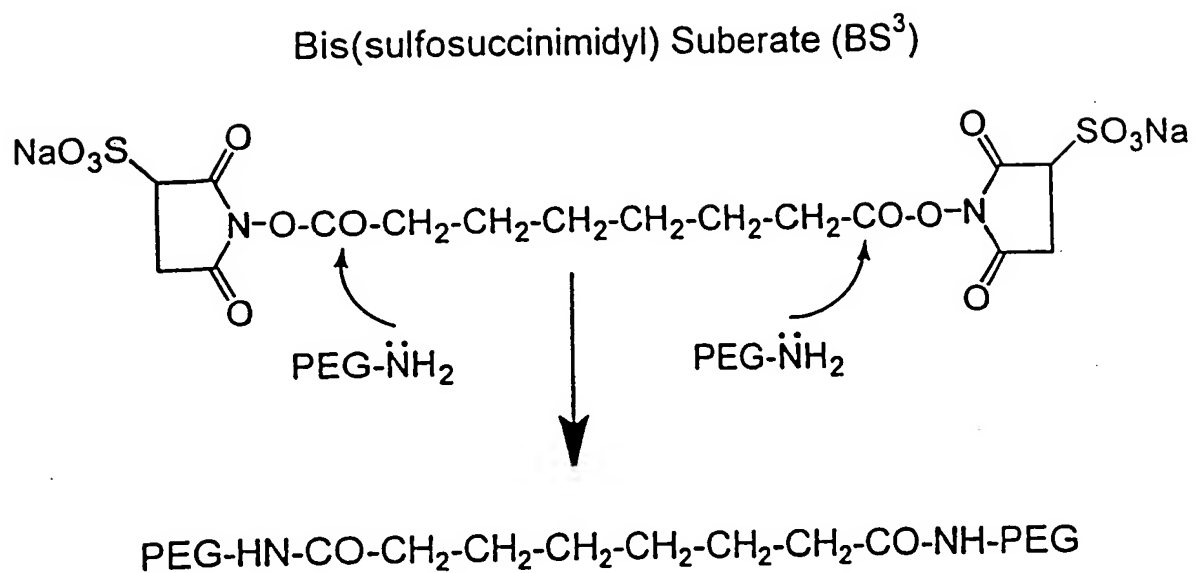


Fig. 16

Bis(2-succinimidooxycarbonyloxy)ethyl Sulfone (BSOCOES)

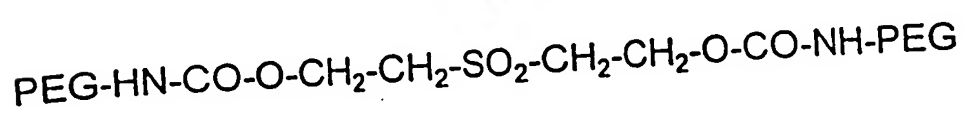
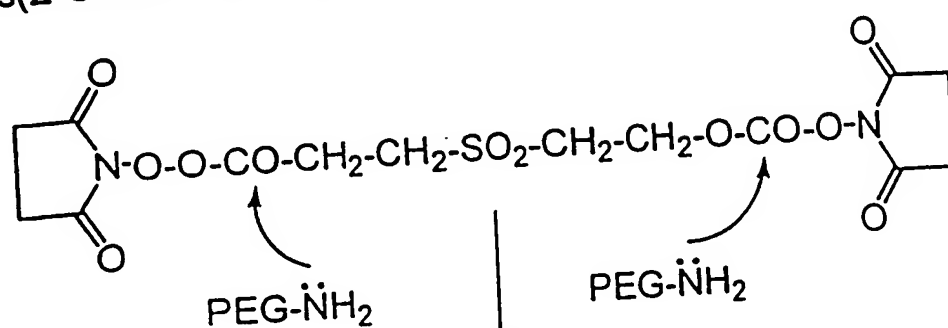


Fig. 17

3,3'-Dithiobis(sulfosuccinimidyl-propionate) (DTSSP)

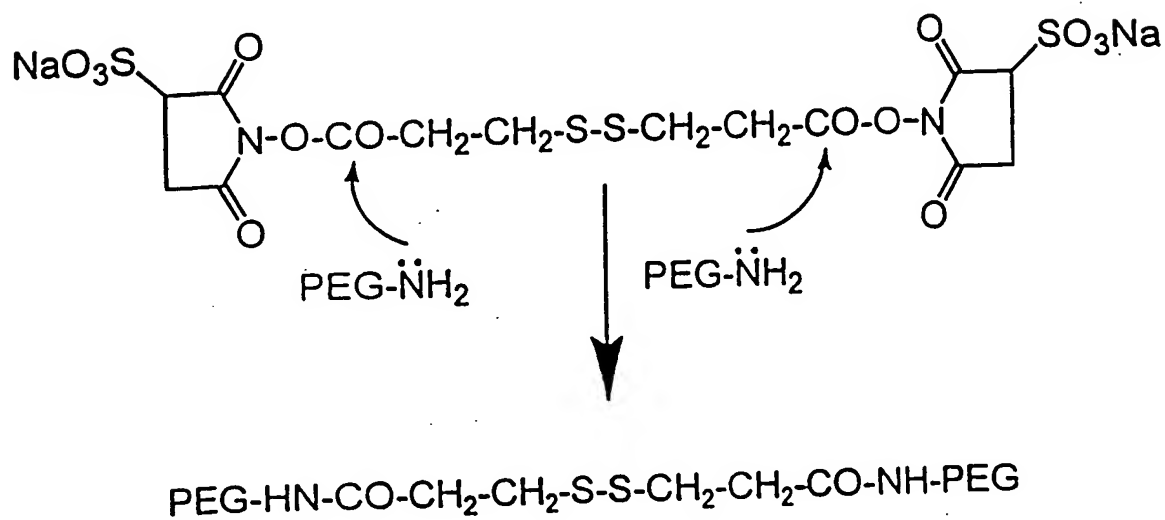


Fig. 18